FILE NOTATIONS Checked by Chief Entered in NID File Approval Lester ocation Ma linned Disapproval Letter Card Indened COMPLETION DATA: Date Well Completed Location Inspected Bond released W.... TA.... State or Fee Land GW.... OS.... PA.... LOGS FILED Driller's Log.... Sixcepie fogo (No.) I..... Dual I Lat..... GR-N..... Micro..... BRO Scrie GR. Lat. Mi-L. ... Sonic.

CBLog..... CCLog..... Others.....

From: Pat Brotherton

Rock Springs, Wyoming

To: T. M. Colson

September 24, 1973

Tentative Plan to Drill Lockerby Well No. 1 San Juan County, Utah

This well will be drilled to total depth by the ______ Drilling Company. One work order has been originated for the drilling and completion of the well, namely 21593-2, Drill Lockerby Well No. 1. This well is located in the NE SW Sec. 16, T. 34 S., R. 26 E., San Juan County, Utah. The well will be drilled to a total depth of 6150 feet to test the Paradox formation. Surface elevation is at 6779 feet.

- 1. Drill a 13-3/4-inch hole to approximately 470 feet KBM.
- 2. Run and cement approximately 450 feet of 10-3/4-inch 0.D., 32.75-pound, H-40, 8 round thread, ST&C casing. The casing will be cemented with 370 sacks of regular Type "G" cement which represents theoretical requirements plus 100 percent excess cement for 10-3/4-inch 0.D. casing in 13-3/4-inch hole with cement returned to the surface. Cement will be treated with 1692 pounds of Dowell D43A. Plan on leaving a 20 foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars and the guide shoe will be spot welded in the field. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar 3 feet deep will be required. Prior to cementing, circulate 75 barrels of mud. Capacity of the 10-3/4-inch 0.D. casing is 45 barrels.
- 3. After a WOC time of 6 hours, remove landing joint. Install a NSCo. Type B 10-inch 3000 psi regular duty casing flange tapped for 10-3/4-inch 0.D., 8 round thread casing. Install a 2-inch extra heavy nipple, 6-inches long, and a WKM Figure B138 (2000 psi WOG, 4000 psi test) valve on one side of the

casing flange and a 2-inch extra heavy bull plug in the opposite side. Install adequate preventers. After a WOC time of 12 hours, pressure test surface casing and all preventer rams to 1000 psi for 15 minutes using rig pump and mud. The burst pressure rating for the 10-3/4-inch 0.D. casing is 1820 psi.

Prill a 9-7/8-inch hole to a tentative depth of 3000 feet. An air or air mist system will be used. A fully manned logging unit will be used from surface casing to total depth. The logging unit will catch 10 foot samples from surface casing to total depth. The mud system, after the well has been mudded up at 3000 feet, will consist of properties adequate to allow the running of drill stem tests. The mud weight should be held as low as practical. Six drill stem tests are anticipated starting at approximately 4290 feet. Anticipated tops are as follows:

	Approximate Depth (Feet KBM)
Mancos - Dakota Morrison Summerville Curtis Entrada Carmel Navajo Kayenta Wingate Chinle Shinarump Moenkopi Cutler Honaker Trail Paradox Upper Ismay Lower Ismay "B" Marker Desert Creek Salt	Surface 270 620 840 935 1,080 1,115 1,465 1,590 1,850 2,450 2,510 2,590 4,290 4,820 5,380 5,590 5,720 5,785 5,920
Total Depth	6,150

- 5. After reaching a depth of 3000 feet, fill hole with 9 pound per gallon mud with lost circulation material. If the hole fills without any lost circulation, reduce the hole size to 7-7/8-inches and proceed to Step 11.
- 6. Run a dual induction laterolog (2-inch linear, 5-inch logarithmic) and integrated borehole compensated gamma ray sonic caliper log from surface casing to total depth.
- 7. Go in hole to total depth with 9-7/8-inch bit and condition hole prior to running 8-5/8-inch O.D. casing. Pull bit laying down drill collars. The mud weight should not exceed 9.5 ppg prior to running the 8-5/8-inch O.D. casing.
- 8. Rams will not be changed in the ram type preventer since the Hydril preventer will be on the wellhead. Run 8-5/8-inch O.D. casing as follows:

 (Top of String in Well)
 - A. 2970 feet 8-5/8-inch O.D., 32-pound, K-55, Hydril flush joint (FJ-P) casing.
 - B. One Baker Type "G" float collar.
 - C. One joint 8-5/8-inch O.D., 32-pound, K-55, Hydril flush joint (FJ-P) casing.
 - D. One Baker guide shoe.

Cement casing with sufficient regular Type "G" cement in order to bring the cement level outside the 8-5/8-inch O.D. casing 1000 feet above the bottom of the casing or above any potential producing zones. The float shoe, shoe joint, float collar, and the next four joints of casing will be locked together in the field at the time the casing is being run using Halliburton thread locking compound. Touch bottom and pick the casing up one foot. Circulate 225 barrels of drilling mud prior to beginning cementing operations. Capacity of the 8-5/8-inch O.D. casing is approximately 189 barrels. Rotate casing while circulating, mixing, and displacing cement. Displace cement with mud.

- 9. Immediately after cementing operations are completed, land the 8-5/8-inch 0.D. casing with full weight of casing on slips and record indicator weight. Cut the 8-5/8-inch 0.D. casing off and install a 10-inch 3000 psi by 10-inch 3000 psi NSCo. casing spool with 2-inch WKM 3000 psi wing valves. Pressure test seals to 1500 psi for 5 minutes. The collapse pressure for 8-5/8-inch 0.D., 32-pound, K-55 casing is 2740 psi. Install a 10-inch 3000 psi preventer with blind rams in bottom and 4-1/2-inch rams in top, a Hydril preventer, and finish nippling up.
- 10. After a WOC time of 24 hours, pressure test casing and all preventer rams to 1000 psi for 15 minutes using rig pump and mud. The internal pressure rating for 8-5/8-inch 0.D., 32-pound, K-55 casing is 3930 psi.
- 11. Go in hole with 7-7/8-inch bit and adequate drill collars. Drill ahead to total depth of 6150 feet or to such other depth as may be recommended by the Geological Department.
- 12. Run a dual induction laterolog (with 2-inch linear, 5-inch logarithmic) integrated sonic gamma ray caliper log from the bottom of the 8-5/8-inch 0.D. casing to total depth and a sidewall neutron porosity gamma ray log from 4290 feet to total depth. Note: Check salt content of the mud to determine if the logging program should be changed.
- 13. Assuming commercial quantities of gas and/or oil are present, go into hole with a 7-7/8-inch bit and condition hole prior to running 4-1/2-inch 0.D. casing. Pull and lay down drill pipe and drill collars.
- 14. Run 4-1/2-inch O.D. casing as follows:

(Top of String in Well)

- A. 6100 feet 4-1/2-inch 0.D., 11.6-pound, K-55, 8 round thread, ST&C casing.
- B. One Larkin filrite float collar.
- C. One joint 4-1/2-inch O.D., 11.6-pound, K-55, 8 round thread, ST&C casing.
- D. One Larkin filrite float shoe.

Run the casing to bottom and pick up one foot. The casing will be cemented with 50-50 Pozmix cement. Cement requirements will be the actual volume as calculated from the caliper log plus 20 percent excess. Circulate 150 barrels mud prior to beginning cementing operations. Capacity of the 4-1/2-inch 0.D. casing is 94 barrels. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water.

- 15. Immediately after cementing operations are completed, land the 4-1/2-inch 0.D. casing with full weight of casing on slips and record indicator weight. Cut off the 4-1/2-inch 0.D. casing and install a NSCo. Type "B" 10-inch 3000 psi by 6-inch 3000 psi tubing spool. Pressure test seals to 2000 psi for 5 minutes. The collapse pressure for 4-1/2-inch 0.D., 11.6-pound, K-55 casing is 4540 psi. Install a steel plate over the tubing spool and release drilling rig.
- 16. Rig up a contract workover rig. Install a 6-inch 5000 psi double gate preventer with blind rams in bottom and 2-3/8-inch rams in top.
- 17. Rig up Dresser Atlas and run a cement bond and PFC log from plugged back depth to top of cement behind the 4-1/2-inch 0.D. casing.
- 18. Pick up a 3-3/4-inch bit and run on 2-3/8-inch 0.D., 4.6-pound, J-55 seal lock tubing to plugged back depth. Using Halliburton pump truck and water, pressure test casing and pipe rams to 3000 psi for 15 minutes. The minimum internal yield for 4-1/2-inch 0.D., 11.6-pound, K-55 casing is 5350 psi and the wellhead is 3000 psi WOG, 6000 psi test. Land the tubing on a H-1 tubing hanger. Pressure test blind rams to 3000 psi for 15 minutes. Pull tubing, standing same in derrick.
- 19. After the above items have been evaluated, a tentative plan to complete the well will be finalized.

GENERAL INFORMATION

I. The following tubular goods have been assigned to the well.

Description	Approximate Gross Measurement (feet)	Availability
10-3/4-inch 0.D., 48-pound, H-40, 8 round thread, ST&C casing	Surface Casing 480	To be purchased
0 F/0 to ab 0 D 20 manual 17 FF	Intermediate Casing	
8-5/8-inch 0.D., 32-pound, K-55 Hydril flush joint casing	3,200	To be purchased
), 1/0 inch 0 D 13 6 manual 17 FF	Production Casing	
4-1/2-inch 0.D., 11.6-pound, K-55, 8 round thread, ST&C casing	6,300	To be purchased
0.2/9 inch 0.7) (Production Tubing	
2-3/8-inch 0.D., 4.6-pound, J-55 seal lock tubing	6,300	To be purchased

- II. The salt content of the mud will be checked prior to cementing the 4-1/2-inch O.D. casing to determine if a salt saturated cement will be required.
- III. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.
- IV. Well responsibility: O. C. Adams

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL & GAS

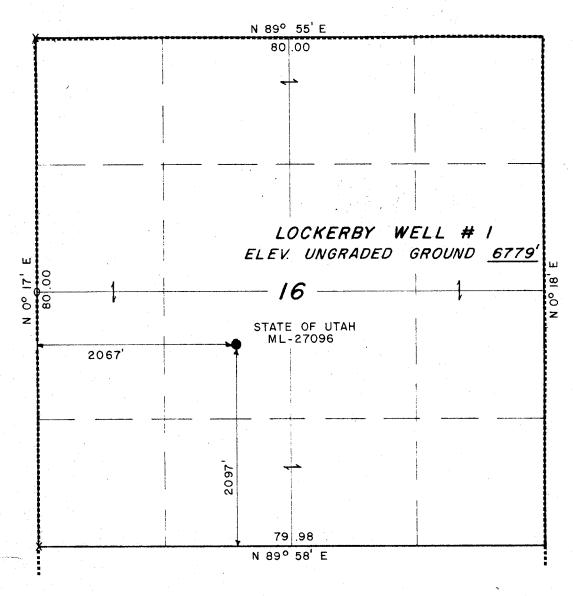
SUBMIT IN TILICATE*
(Other instructions on reverse side)

Jup

5. Lease Designation and Serial No.

					ML - 27096	
APPLICATION	FOR PERMIT TO	O DRILL, DEEP	EN, OR PLUG	BACK	6. If Indian, Allottee or	Tribe Name
1a. Type of Work			7.7		7. Unit Agreement Name	
DRILL	X	DEEPEN	PLUG I	BACK 🗌	7. Omt Agreement Rame	
b. Type of Well Oil Gas			Single [] M	Iultiple	8. Farm or Lease Name	
Well Well	Other			one		
2. Name of Operator					Lockerby	
Mountain Fuel St	apply Company				9. Well No.	
3. Address of Operator					1	
P. 0. Box 1129,	Rock Spr	ings, Wyoming	82901		10. Field and Pool, or Wil	deat
4. Location of Well (Report	location clearly and in a	ccordance with any Stat	requirements.*)		Wildcat	
2097			SW		11. Sec., T., R., M., or B and Survey or Area	lk.
At proposed prod. zone					NE SW 16-345-2	
14. Distance in miles and dis						3. State
15 miles souther	ast of Monticel	lo, Utah			San Juan	Utah
15. Distance from proposed* location to nearest property or lease line, ft		16. 1	No. of acres in lease		of acres assigned is well	
(Also to nearest drlg. line 18. Distance from proposed		19. T	Proposed depth	20. Rota	ry or cable tools	
to nearest well, drilling, or applied for, on this lea	completed,		6150 '	_	otary	
21. Elevations (Show whether			01)0	777	22. Approx. date work	vill start*
•	Dr, KI, GR, etc.)					
GR 6779'					November 1,	1913
23.	F	ROPOSED CASING AN	D CEMENTING PROGE	RAM		·
Size of Hole	Size of Casing	Weight per Foot	Setting Depth		Quantity of Cement	
13-3/4	10-3/4	32.75	450		370	
9-7/8	8-5/8	32	3000	to be	determined	
7– 7/8	4-1/2	11.6	to be	determ	ined	
We would like to formation tops a Summerville at 6 1115', Kayenta a Moenkopi at 2510 Ismay at 5380', and salt at 5920	are as follows: 520', Curtis at at 1465', Winga)', Cutler at 2 Lower Ismay at	Mancos-Dako 840', Entrada te at 1590', (590', Honaker	ta at the surf a at 935', Car Chinle at 1850 Trail at 4290	ace, Mon mel at l ', Shina ', Para	rrison at 270', 1080', Navajo at arump at 2450', lox at 4820', Up	per
Blow out prevent formation fluids		ecked daily a	nd mud will be	adequa	te to contain	
IN ABOVE SPACE DESCRI ductive zone. If proposal is preventer program, if any.			ata on subsurface location	ns and meas		
24.	^		Vice Preside	nt,		

T345, R26E, S.L.B.&M.



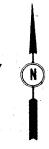
O = Re-established Corner
X = Bearing Trees Located.

W.O. 21593

PROJECT

MOUNTAIN FUEL SUPPLY COMPANY

Well location, LOCKERBY WELL # 1, located as shown in the NE 1/4 SW 1/4, Section 16, T34S, R26E, S.L.B.&M., San Juan County, Utah.



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM
FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY
SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE
BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SUR EYO REGISTRATION Nº 3154

UINTAH ENGINEERING & LAND SURVEYING
PO. BOX Q - 110 EAST > FIRST SOUTH
VERNAL, UTAH - 84078

SCALE 1" = 1000	I4 September, 1973
PARTY DH DP	REFERENCES GLO Plat
WEATHER Warm	FILE M-11263 Mountain Fuel

Present Status Drawing Drawn by - CRO - 12-20-73 Schematic - Not draw to wate. Lockerby Well No. 1 Revised - CRO - 1-2-74 Drilled by MFSCo - 1973 Sec. 16, T345, R26E Well temperarily abandoned 1-1-14 San Juan County, Utah KB 6792,50 10.05 15.12 G.L. 6779' 10 % Surface Casing 1.62 1 10" 3000 ps; NSCo Type B cog flange 13 jts 10 % "00, 32.75 ", N-40, 8 nd that STEC Casing 393.36 1 Baker guide shoe 395.88 Total Above casing landed at 411,00' KB or 15,12' below KB. 10 3 esq at 411.0 KB Circulated same for 25 minutes. Critical w/ 320 tx's Class'A' cut treated with 1693 # D43A. Plug down 2:00 p.m. 11-12-73. Returned 10 barrels slurry to pit. 8 & 00 lutermediate Casing ent top 1500' KB 1 pc 84"00, 32.0", K-55, 8 rd thd ST&C csg 22,39 6 jta 88"00, 32.0", K-55, 8 nd that 5T fc csg 189.14 12 its 8 % 00, 32.0 % K-55, 8 rd that STIC csg 369.00 1 jts 8 % 00, 8rd crossover box to 8 % 00 hydrill flush jt 1.45 50 jts 8 9"00, 32.0", K-55, flush jt hydnill asg 2,083.83 1 Baker model C float collar 1.97 1 jt 8 \$ " 00, 32.0", K-55, 8rd that STEC cog 30,59 1 Baker guide shoe 0.90 Total 2,699.50 85 " csq at 2714.62 KB Above esq was landed at 2714.62 KBM or 15.12" below KB in a NSCo 10" 3000 psicsg flange. ent top 4500 KB Casing was run in air drilled hole and not mudded 4p before running csq. Circulated capacity of cag w/ rig water before emting, No returns. Conted w/ 210 sx class A ant treated w/ 4 # floscal per ex. Oid not rotate last 20 bb/s. Set cog with full indicator wit of 90,000 to on slips. 42 00 Productions Casing 2 3 00 thy haded at 5625,01 KB Ran 190 ; ts 42 "OD, 10.5", K-55 , ST &C Casing, Landed at 6049 KB. Cemented with Baker model 'N' Bridge plug at 5735' KBM 350 sx 50-50 Pozmix w/1777 " salt. Retated Parts 5758-5782' KB 2HPF hyper-jet chots casing throughout. Cut off csq & land w/ Baker Model WC Bridge plug at 5860' KBM indicator weight of 50,000 #. Rests 5878-6886' KB 2 HAF hyper-jet shots Net 2 % 00 Production Tubing Rif. 5974-5990'KB 2HPF hyper-jet shots 1 NSCO H-1 tubing kangar 0.56 1 23, "00 seal lock by 8rd EUE change upple 0.33 Parts 6008-6022' KB 2 HPF Apper-jet shots 181 jts 2 % "00, 4.6 ", 1-55 seal lock they 5611.24 I shop made clasing tool All perforations measured from DA sidewall Metron correlated to Schlumberger cement bond log Above tubing landed at 5623.01 KB or 10.05" below KB. ina 6" 3000 ps. type B the spool cmt 45 00 csg landed at 6049 KB

TD drilled 73 hole to 6050 KB

October 9, 1973

Mountain Fuel Supply Company Box 1129 Rock Springs, Wyoming 82901

> Re: Well No. Lockerby State #1 Sec. 16, T. 34 S, R. 26 E, San Juan County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with the General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PAUL W. BURCHELL - Chief Petroleum Engineer HOME: 277-2890
OFFICE: 328-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation relative to the above will be greatly appreciated.

The API number assigned to this well is 43-037-30130.

Very truly yours,

DIVISION OF OIL & GAS CONSERVATION

CLEON B. FEIGHT DIRECTOR

CBF:sd

cc: Division of State Lands

AB.

4

INTEROFFICE COMMUNICATION

R. G. MYERS

R. G. Myers	Rock Springs, Wyomi	ng
FROM	CITY	STATE
B. W. Croft	October 12, 1973	·

Tentative Plan to Drill
Lockerby Well No. 1
San Juan County, Utah

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis dated September 11, 1973.

RGM/gm

Attachment

cc: J. T. Simon

L. A. Hale (6)

J. E. Adney

Geology (2)

D. E. Dallas (4)

C. F. Rosene

B. M. Steigleder

E. A. Farmer

U.S.G.S.

State

Paul Zubatch

P. E. Files (4)

FØRM OGC-8-X FILE IN QUADRUPLICATE JWP

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL AND GAS CONSERVATION 1588 West North Temple Salt Lake City, Utah 84116

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name and Number Locker By	WELL NO. L	
Operator Mountain FUEL SU	JPPLY COMPANY	
Address D.O. Box 11368	3 SALT LAKE CITY, UTAH	84139
Contractor LOFFLAND BROTI	HERS COMPANY RIGZ	z3
Address FARMINGTON), NEW MEXICO	
Location <u>NE</u> 1/4, <u>SW</u> 1/4, Sec. <u>1</u>	6, T. 34 to, R. 26 E., SAN	U JUAN County.
Water Sands:		
From Depth: To -	Volume: Flow Rate or Head -	Quality: Fresh or Salty -
1. 1445 TO 1460	APPROX 15 BWPH	
2. 2040 70- 2050	APPROK 15 BWPH	
3		/ Brd 1, 3-10-16 B 5 5 5 5 10 10 10 10 10 10 10 10 10 10 10 10 10
4.		
5		
	(Continue on Reverse	Side if Necessary)
Formation Tops: NAUR 30 1298,	CHINLE 1967	

NOTE: (a) Upon diminishing supply of forms, please inform this office.

- (b) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure, (see back of this form)
- (c) If a water quality analysis has been made of the above reported zone, please forward a copy along with this form.

CHEM LAB

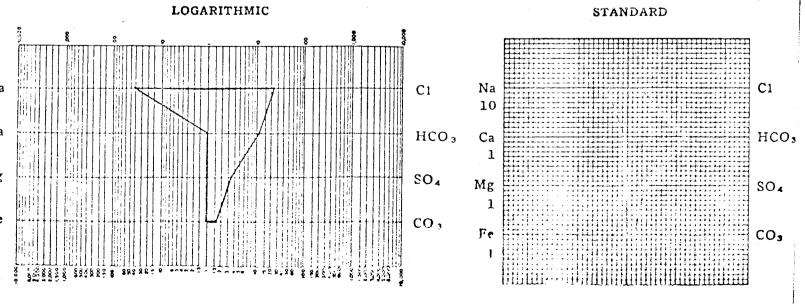


WATER ANALYSIS EXCHANGE REPORT

	in Fuel Supply		LAB NO. 11702	REPORT	г ноои л
OPERATOR Mountain	in Fuel Supply	Company		Section 16-34S-26	
WELL NO. Locker	by No. 1			Vavajo-Chin le	
FIELDWildca	the second secon	the state of the s		L445-2040	
COUNTY San Jua	an			Air Drilling \$ 1719	Some sud
STATE Utah				January 3, 1974	
Cations	mg/1	meq/1	Anions	mg/1	meq/1
Sodium	. 477	20.76	Sulfate	170	3.54
Potassium	788	20.17	Chloride	850	23.97
Lithium	•	_	Carbonate	48	1.60
	6	0.30	Bicarbonate	744	12.20
Calcium	-			-	
	- <u>- </u>	0.08	Hydroxide	· · ·	
Calcium	- 1	0.08	Hydroxide Hydrogen sulfide	· · ·	
Magnesium	ations		Hydrogen sulfide	otal Anions	41.31

WATER ANALYSIS PATTERNS

MEQ per unit



Mos Clare adams Mt Juel 1/7/74 Lockory #1 ne 16 T345 R26E 10-3 - 4/0 Loy lop: Jan 42-60492 4500 to go Con. 1 B.L. Dafford - Novin - Sexford Pop 6006 de 6022 Does Just 4 Jun - 818 Cente - 1037 Entrolo - 1121 Perf. 5878 - 86 Japan Deer Brick Carnel - 1266 nove - 12 98 Hayente 1565 graden Wynist -1791 Chenles -1967 Shenoup 75 41 Proposed by Alle George, nerhoge - 1670-Raper > 13. Pal 5 8 60 Certer - 4:10 -6 8 al 2712-Wneke Jul - 43 53 have of mountaged Parode: 4869 9 Not to Cut. 7 MB Lang - 547 & Delle Love Jones 5669 9 of Cal - 100 at stat 5 00 in sufer but 15 2 21 B Make - 5893 Devel Creek - 5876 1 Camelon ty of BP fall - 6020 C 5860 up anne lof perf. (2) 100' compand plug dy of 0 -6050 h. B -67 91 (3) 100 coned fly of but 1 8 to - 73 min 5 sout (4) - 10 in ind 8 to and top of Permin - Ponn. (top of Knike Frail) moter formater - Mud better plays. for the play ents 63

PID

From: C. R. Owen

To: T. M. Colson

Rock Springs, Wyoming

February 12, 1974

Tentative Plan to Complete and/or Plug and Abandon Lockerby Well No. 1 San Juan County, Utah

This well is presently temporarily abandoned. There are five potentially productive zones in this well. Four of these were perforated and tested during the completion operations. After reviewing DST reports prepared by Halliburton services, it is felt the bottom three zones should be retested due to plugging of the test tool.

The fifth zone, from 5644 feet to 5660 feet KBM should be perforated and tested. This zone has not been previously tested.

If the above recommended DSTs and recompletion operations prove the well to be non-productive, the well will be plugged and abandoned.

The following is a tentative plan to accomplish the above tests and plugging operations.

- 1. Rig up contract workover rig. Mud pump and tanks will be required.
- 2. The wellbore is full of 8.9-pound/gallon drilling mud and a bridge plug has been set above the top perforations. Open tubing and casing to atmosphere to bleed off any trapped pressure.
- 3. Remove upper portion of wellhead to 6-inch 3000 psi Type "B" tubing spool. Install a hydraulically operated double gate blowout preventer. The BOP should be equipped with blind rams on bottom and 2-3/8-inch 0.D. tubing rams on top. Pull and stand tubing in derrick.
- 4. Pick up six 3-1/8-inch drill collars and run 3-3/4-inch rock bit on 2-3/8-inch O.D. tubing to drill out Baker Model "N" (at 5735 feet KB) and Baker Model "NC" (at 5860 feet KB) bridge plugs. Water will be added to mud in wellbore and used as drilling fluid. It will be necessary to clean out wellbore to plug back total depth at 6026 feet KB. Pull tubing and stand about 5850 feet in derrick. Lay down remainder of tubing.

Pick up hookwall test tool and run in hole to about 5850 feet KB. Run PDST No. 5 on three lower zones at 5878 to 5886 feet, 5974 to 5990 feet, and 6008 to 6022 feet KBM. Suggested flow and shut-in times are as follows:

IF - 30 minutes, ISI - 60 minutes, FF - 120 minutes or until well stabilizes,
FSI - 180 minutes

Pull test string and stand tubing in derrick.

- 6. If test proves zones to be unproductive, a Baker Model "N" bridge plug will be set at 5725 feet KBM.
- 7. Rig up Schlumberger to perforate the following zone:

5644 feet to 5660 feet KBM

Perforate with two holes per foot Hyper Jet shots. A total of 16 feet will be perforated with 32 holes. The above perforating depths are taken from the Schlumberger sidewall neutron log run December 17, 1973 and should be correlated with the Schlumberger PDC log prior to shooting. Record any pressure after perforating.

- 8. Pick up a Halliburton test tool and packer dressed for 4-1/2-inch 0.D., 10.50-pound casing. Run in hole and set packer at approximately 5614 feet KB or 30 feet above top perforations. Run production DST No. 6 on above perforations. Suggested flow and shut-in times are as follows:
 - IF 30 minutes, ISI 60 minutes, FF 120 minutes, FSI 180 minutes Pull and lay down test tools. Stand tubing in derrick
 - Note: If this zone is non-productive or wet, proceed with the following plan to pull casing and plug and abandon well.
- 9. Rig up McCullough and set a Baker Model "N" bridge plug at 5600 feet.

- 10. Pick up 4-1/2-inch 0.D., 10.50-pound casing spear. Pick up one joint of 3-1/2-inch 0.D. drill pipe and run into 4-1/2-inch 0.D. casing. Pick up casing and remove slips in wellhead. Rig up McCullough to run free point on casing. Free point should be about 4400 feet KBM.
- 11. Shoot off casing at free point and pull 4-1/2-inch O.D. casing. Lay casing down.
- 12. Run tubing to 50 feet below top of 4-1/2-inch casing stub. Set 100 foot cement plug. 35 sacks of Regular Type "G" cement will be required. Note:

 A plug across the Honaker Trail may be required.
- 13. Pull and lay down tubing to 2750 feet KBM. Set a 100 foot cement plug at the base of 8-5/8-inch 0.D. casing. Set plug with 75 feet cement in pipe and 25 feet cement in open hole. 35 sacks of cement will be required.
- 14. Rig up to pull 8-5/8-inch O.D. casing. Run spear for 8-5/8-inch O.D. casing and pick up casing. Remove casing slips. Run free point and cut off casing. Pull and lay down 8-5/8-inch O.D. casing.
- 15. Run tubing to top of 8-5/8-inch O.D. casing. Set 100 foot cement plug (50 feet cement in pipe, 50 feet cement out of casing). 45 sacks cement will be required.
- 16. Pull and lay down tubing to 461 feet KBM and set 100 foot cement plug at base of 10-3/4-inch 0.D. casing. Set plug with 50 feet cement in pipe and 50 feet cement out of pipe. 45 sacks cement will be required.
- 17. Set 10 sack cement plug at surface and erect a regulation dry hole marker.

 Note: Drilling mud will be placed between cement plugs.
- 18. Release contract workover rig.

GENERAL INFORMATION

I. Summary of current plug required:

Plug No. 1 - 5735 feet to 5335 feet KB - 30 sacks

Plug No. 2 - 100 foot plug - top of 4-1/2-inch.O.D. casing

Plug No. 3 - 4400 feet to 4300 feet KB - 35 sacks - Honaker Formation (Top 4353)

Plug No. 4 - 2740 feet to 2640 feet KB - 35 sacks - base of 8-5/8-inch casing

Plug No. 5 - 100 foot plug - top of 8-5/8-inch O.D. casing

Plug No. 6 - 461 feet to 361 feet KB - 45 sacks - base of 10-3/4-inch casing

Plug No. 7 - 30 feet to 0 feet KB - 10 sacks - surface





STATE OF UTAH	SUBMIT IN TRIPLICATE.	Cur	
U STATE OF STATE	(Other instructions on reverse side)	5. LEASE DESIGNATION AND	BERIAL NO.
OIL & GAS CONSERVATION COMMISSION	,	ML - 27096	
		6. IF INDIAN, ALLOTTER OF	TRIBE NAME
SUNDRY NOTICES AND REPORTS ON '	WELLS	_	
(Do not use this form for proposals to drill or to deepen or plug back to Use "APPLICATION FOR PERMIT—" for such proposals	a dinerent reservoir.		
1.		7. UNIT AGREEMENT NAME	
OIL GAS OTHER Wildcat		_	
2. NAME OF OPERATOR		8. FARM OR LEASE NAME	
Mountain Fuel Supply Company		Lockerby	
8. ADDRESS OF OPERATOR		9. WELL NO.	
P. O. Box 1129, Rock Springs, Wyoming 82	901	1	
4. LOCATION OF WELL (Report location clearly and in accordance with any State I See also space 17 below.)	equirements.*	10. FIELD AND POOL, OR W	ILDCAT
At surface		Wildcat	
		11. SEC., T., R., M., OR BLK. SURVEY OR AREA	AND
2097' FSL, 2067' FWL NE SW		TT	T CTDOM
		NE SW 16-34S-26E	
14. PERMIT NO. 15. BLEVATIONS (Show whether DF, RT, GR,		12. COUNTY OR PARISH 1	
API 43-037-30130 KB 6792.50' GR 6779) 1	San Juan	Utah
Check Appropriate Box To Indicate Nature	of Notice, Report, or O	ther Data	
NOTICE OF INTENTION TO:	SUBSEQU:	ENT REPORT OF:	
TEST WATER SHUT-OFF PULL OR ALTER CASING	WATER SHUT-OFF	REPAIRING WEL	L
FRACTURE TREAT MULTIPLE COMPLETE	FRACTURE TREATMENT	ALTERING CASIN	ie
SHOOT OR ACIDIZE ABANDON*	SHOOTING OR ACIDIZING	ABANDONMENT*	
REPAIR WELL CHANGE PLANS	(Other) Supplementar	y history of multiple completion on	[X]
(Other) Temporarily abandon X	Completion or Recomple	ction Report and Log form.)	_
 DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent detail proposed work. If well is directionally drilled, give subsurface locations at nent to this work.) * 			starting any d zones perti-
TD 6050', PBD 5735', rig released 1-1-74, well	temporarily aband	oned.	
Spudded 11-18-73, set 395.88' net, 399.13' gros	s of 10-3/4"OD, 3	2.75#, H-40, cas	ing at
411.00' with 320 sacks of cement.	и .		
Set 2699.50' net, 2722.50' gross of 8-5/8"OD, 3	32#, K-55, casing	at 2714.62' KBM	with
210 sacks of cement.			
DST #1: 5651-5674', Ismay, IO $\frac{1}{2}$ hr, ISI $1\frac{1}{2}$ hrs			
increased to strong in 5 minutes, reopened good	l increase to very	strong, no gas,	TD 0506
recovered 25' mud, IHP 2612, IOFP's 27-27, ISI	398, FOFP's 27-2	7, FSIP 2130, F	IP 2500.
DST #2: 5768-5831', Ismay, IO $\frac{1}{2}$ hr, ISI $1\frac{1}{2}$ hrs gas in 10 minutes, $\frac{1}{4}$ hr 110 Mcf, $\frac{1}{2}$ hr 98 Mcf, rorifice), 2 hrs 75 Mcf, recovered 310' gas cut IHP 2668, IOFP's 108-108, ISIP 2029, FOFP's 54-	eopened, $\frac{1}{4}$ hr 170 mud.) Mcf, ½ hr 75 Mc	l good, ef (½"
DST #3: 5920-5960', Desert Creek, IO $\frac{1}{2}$ hr, ISI on both openings, no gas, recovered 1' mud, IHI FSIP 54, FHP 2718.	$1\frac{1}{2}$ hrs, FO 2 hrs 2 2718, IOFP's 27-	, FSI 2½ hrs, or 27, ISIP 54, FO	ened weak FP's 27-27
Set 6036.50' net, 6084.25' gross of $4\frac{1}{2}$ "OD, 10.5 of cement.	#, K-55, casing a	t 6050' KBM with	n 350 sack
- Continued on reverse			
18. I hereby certify that the foregoing is true and correct Vice	President,		-
	Supply Operations	DATE Feb. 22	2, 1974
(This space for Federal or State office use)			,

TITLE

ed, on Fed-applicable General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

posals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant; sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and out, size, method of parting of any casing liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. In addition, such proposals and reports should includuited contents not sealed off by cement or otherwise above plugs; amount, size, method of parting of any conditioned for final inspection looking to approval or Item 4: If there are no applicable State re State or Federal office for specific instructions. Item 17: Proposals to abandon a

Perforated from 5974' to 5990' and 6008' to 6022' with 2 holes per foot, made PDST #1.

PDST #1: Desert Creek perfs 5974-6022' gross, IO \frac{1}{2} hr, ISI 1 hr, FO 2 hrs, FSI 31 hrs, opened medium, gas in 5 minutes, dead in 20 minutes, reopened medium, gas at once not enough to gauge, dead in 1 hr, tool did not shut in on 2nd SI, recovered 216' gas cut mud. THP 2747, IOFP's 94-121, ISIP 1869, FOFP's 121-148, FSIP 175, FHP 2747.

Perforated from 5878' to 5886' with 2 holes per foot, made PDST #2. PDST #2: Perfs 5878-6022' gross, IO 1 hr, ISI 1 hr, FO 2 hrs, FSI 2 hrs, opened strong, gas in 9 minutes not enough to gauge, reopened gas at once not enough to gauge, dead in $\frac{1}{2}$ hr, recovered 558' gas cut mud, IHP 2681, IOFP's 121-405, ISIP 779, FOFP's 606-619, FSIP 686, FHP 2641.

Set Baker NC bridge plug at 5860', perforated from 5758' to 5782' with 2 holes per foot, made PDST #3 and PDST #4.

PDST #3: Perfs 5758-5782', considered test mis-run. PDST #4: Perfs 5758-5782', IO $3\frac{1}{2}$ hrs, ISI 4 hrs, opened strong, gas in 5 minutes, $\frac{1}{4}$ hr 60 Mcf, 1 hr 15 Mcf, 3 hrs 12 Mcf, $3\frac{1}{2}$ hrs 12 Mcf, recovered 270' gas cut mud, IHP 2588, IFP's 81-94, SIP 1776, FHP 1776.

Landed tubing, installed wellhead, displaced water from wellbore with 3300 gallons 28% HCL, pumped 2700 gallons 28% HCL, displaced acid with drip oil, flowed spent acid water to pit, pumped nitrogen unloading acid water, gas not enough to gauge, pulled tubing, ran Baker model N bridge plug and set at 5735', no casing pulled. Verbal approval was granted by Mr. Feight to temporarily abandon this well on $\overline{12}$ -31-73.

Form OGCC-3

10"

8-5/8

SIZE

11 Jus

SURMIT IN DUPLICATE STATE OF UTAH (See other instructions on reverse side) 5. LEASE DESIGNATION AND SERIAL NO. OIL & GAS CONSERVATION COMMISSION ML-27096 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG* 1a. TYPE OF WELL: Temp. Abandoned 7. UNIT AGREEMENT NAME b. TYPE OF COMPLETION: DEEP-PLUG BACK S. FARM OR LEASE NAME RESVR. Other 2. NAME OF OPERATOR Lockerby 9. WELL NO. Mountain Fuel Supply Company 3. ADDRESS OF OPERATOR 10. FIELD AND POOL, OR WILDCAT P. O. Box 1129, Rock Springs, Wyoming 82901 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA At surface 2097 FSL, 2067' FWL At top prod. interval reported below NE SW 16-34S-26E., SLB&M At total depth 12. COUNTY OR PARISH 13. STATE 14 PERMIT NO. DATE ISSUED API No. 43-037-30130 San Juan Utah 19. ELEV. CASINGHEAD 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* 11-18-73 1-1-74 KB 6792.50' GR 6779' 12-17-73 CABLE TOOLS 23. INTERVALS DRILLED BY 22. IF MULTIPLE COMPL., ROTARY TOOLS 20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD HOW MANY 57351 0-60501 WAS DIRECTIONAL SURVEY MADE 24. PRODUCING INTERVAL(S), OF THIS COMPLETION-TOP, BOTTOM, NAME (MD AND TVD)* Temporarily abandoned V No 27. WAS WELL CORED 26. TYPE ELECTRIC AND OTHER LOGS RUN Sidewall Neutron-GR, BHC Acoustilog, Dual Induction Focused CASING RECORD (Report all strings set in well) HOLE SIZE CEMENTING RECORD DEPTH SET (MD) AMOUNT PULLED CASING SIZE WEIGHT, LB./FT. 411.00 13-3/4 32.75 320 <u>9-7/8</u> 2714.62 0 32 210 10.5 6050.00 350 0 LINER RECORD 30 TUBING RECORD PACKER SET (MD) SIZE DEPTH SET (MD) BOTTOM (MD) SACKS CEMENT* SCREEN (MD) TOP (MD) 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL USED 5758-5782°,5878-5886°,5974-5990°**,** 6008-6022', jet, 2 holes per foot 6,000 gallons 28% HCL PRODUCTION WELL STATUS (Producing or PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) PROD'N. FOR TEST PERIOD OIL—BÉL. GAS-MCF. WATER-BBL. GAS-OIL RATIO HOURS TESTED

Temp. Abnd DATE OF TEST OIL GRAVITY-API (CORR.) CALCULATED
24-HOUR RATE CASING PRESSURE GAS--MCF. WATER-BBL. 34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY Vented while testing. 35. LIST OF ATTACHMENTS

Logs as above, Well Completion and Well Lithology to be sent at a later date.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED	13	ω	16	wil	4
					,

Vice President,

Gas Supply Operations

Feb. 22, 1974 DATE __

INSTRUCTIONS

or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency

should be listed on this form, see item 35.

When the see it is a see item 35.

We with Federal requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State

Hem 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Hem 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 83. Submit a separate report (page) on this form, adequately, identified, for each additional interval to be separately produced, showing the additional atta pertinent to such interval.

Hem 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Hem 33: Submit a separate completion report on this form for each interval to be separately produced. * (See instruction for items 22 and 24 above.) or Federal office for specific instructions.

		TRUE VERT. DEPTH											· · ·										
GEOLOGIC MARKERS	TOP	MEAS. DEPTH			Surface	818	1121	1266	1298	1565	1741	1967	2541	2620	2720	4353	6981	2478	5689	5803	5876	6020	
38. GEOLOG	-	NAME	Log tops:		Dakota	Summerville	Entrada	Carmel	Navajo	Kayenta	Wingate	Chinle	Shinarump	Moenkopi	Cutler_	Honaker Trail	Paradox	Upper Ismay	Lower Ismay	"B" Zone	Desert Creek	Salt	
BETS, INCLUDING									- -					1					;		•		. —
; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING G AND SHUT-IN PRESSURES, AND RECOVERIES	DESCRIPTION, CONTENTS, ETC.																						
MART OF PORCUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THERROF; CORE, DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND	воттом		Silver Silver State		-					* * * * * * * * * * * * * * * * * * *						1.0						1	
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87. SUMMARY OF POROUS ZONES SHOW ALL IMPORTANT ZONES DEPTH INTERVAL TESTED, CUSI	FORMATION			10) 10)			3												31 C.	AS COM		×	4

Afor Colsen. Tockaby 5/19/74

April - Son Juan Ca Jeologie top already sealin

B P. C 5600 (perfs all halow) 42 to T.D. 35 st Coment - on ty of stat (in & out) 2 4400 to 4500 Ly if below sel 35 26 from 4300-4000 35 sh C. 8 8 -> 2640 t 2740' finishe The 83 = free foint x 1500 - Cut ret 35 st on stab- fan foat 45 mb ret of 10 3" bore - 361 to 461 ret one at senfoce / morker / mud hatern play.

Form ØGCC-1 be

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legec-1 be	STA	E OF UTAH		SUBMIT IN TRIPLIC			
OIL & (GAS CONSE	RVATION CC	MMISSIC	verse side)	· · ·	5. LEASE DESIGNATION	AND SERIAL NO.
						ML - 27096 6. IF INDIAN, ALLOTTER	
		ES AND RE		N WELLS ack to a different reservoir. oposals.)		o. IF INDIAN, ALLOTTER	OR TRIBE NAME
1.	000 1111 111011				-	7. UNIT AGREEMENT NA	EM.
OIL GAS WELL	OTHER	Wildca	t			e	
2. NAME OF OPERATOR						8. FARM OR LEASE NAM	(B
	Mount	ain Fuel Su	pply Com	pany		Lockerby	
3. ADDRESS OF OPERATOR					ŀ	9. WELL NO.	
P. O. Box 112	29,	Rock Spring	s, Wyomi	ng 82901	-	10. FIELD AND POOL, OF	B WILDCAT
4. LOCATION OF WELL (H See also space 17 belo At surface	eport location cie w.)	irly and in accordan	ice with any	state requirements.	-	Wildcat 11. SEC., T., B., M., OR B	
000 71 HOT	00671 1811	NTD CIT			İ	SURVEY OR AREA	
2097' FSL,	5001, IMI	NE SW			l	NE SW 16-34S-	-26E STR&N
14. PERMIT NO.	-	15. ELEVATIONS (Sho	w whether DF,	RT, GR, etc.)	-	12. COUNTY OR PARISH	
API 43-037-30	0130	KB 6792	.50¹	GR 6779'	1	San Juan	Utah
16.				ature of Notice, Report	or Ot	her Data	
,	OTICE OF INTENT	,	indicate i v			NT REPORT OF:	
TEST WATER SHUT-OI		LL OR ALTER CASING		WATER SHUT-OFF		REPAIRING V	WELL
FRACTURE TREAT		LTIPLE COMPLETE	' 	FRACTURE TREATMENT		ALTERING CA	
SHOOT OR ACIDIZE		ANDON*		SHOOTING OR ACIDIZI		ABANDONME	NT* X
REPAIR WELL		ANGE PLANS		(Other)			
(Other)				(Note: Report ('ompletion or F	results o Recomplet	f multiple completion tion Report and Log for	on Well rm.)
proposed work. If nent to this work.)	well is direction	illy drilled, give sui	osuriace locati	details, and give pertinent ons and measured and true	vertical	depens for an market	and mones per u
Plug No. 1: Plug No. 2: Plug No. 3: Plug No. 4: Plug No. 5:	2740-2640° 960- 860° 460- 360°	, 35 sacks , 45 sacks , 45 sacks	10" surf	ace pipe.			
A regulation a later date		t marker wi	ll be in	stalled and the	lœat:	ion cleaned at	;
FINAL REPORT	•						
	4.4 · *						
	•						
18. I hereby certify that	the foregoing is		TITLE	ICE PRESIDENT		_ DATE Augus	st 7, 1974
SIGNED / SUC			111111111111111111111111111111111111111	nd durret uperation			
(This space for Fede	ral or State office	use)					

TITLE .

DATE _

STATE OF UTAH OIL & GAS CONSERVATION COMMISSION SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepee or plug back to a different reservoir. I. OIL WE "APPLICATION FOR PERMIT—" for such proposals. WIL — 27096 6. IF INDIAN, ALLOTTES OR TRIBE NAME (Do not use this form for proposals to drill or to deepee or plug back to a different reservoir. I. OIL WE "APPLICATION FOR PERMIT—" for such proposals. I. OIL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE "APPLICATION FOR PERMIT—" for such proposals. II. WILL WE WATER SHUT-OFF WATER SHUT-OFF WILL WE WATER SHUT-OFF WATER SHUT-OFF WATER SHUT-OFF WILL WE WATER SHUT-OFF WILL WE WATER SHUT-OFF WATER	OGCC-1 be		•	
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SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Out	OIL & GAS CONS	ERVATION COMMISSION		5. LEASE DESIGNATION AND SERIAL NO.
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(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Ture "APPLICATION FOR PERMIT" for such proposals.	SUNDRY NOTI	CES AND REPORTS OF	J WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
OIL WELL OTHER WILDCAT 2. NAME OF OPERATOR MOUNTAIN Fuel Supply Company S. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2097' FSL, 2067' FWL NE SW 14. PERMIT NO. API # 43-037-30130 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: SUBSEQUENT REPORT OF: TEST WATER SHUT-OFF PRACTURE TREAT MULTIPLE COMPLETE ABANDON* CHANGE PLANS (Other) TO SUBSEQUENT REPORT OF: WATER SHUT-OFF PRACTURE TREAT MULTIPLE COMPLETE ABANDON* SUBSEQUENT REPORT OF: WATER SHUT-OFF PRACTURE TREAT MULTIPLE COMPLETE ABANDON* SUBSEQUENT REPORT OF: WATER SHUT-OFF PRACTURE TREAT MULTIPLE COMPLETE ABANDON* SUBSEQUENT REPORT OF: WATER SHUT-OFF PRACTURE TREATMENT SHOOT OR ACIDIZE ABANDON* (Nor: Report results of multiple completion on Well (Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and measured and true vertical depths for all markers and zones pertiment to this work.) 18. PARM OR LEASE NAME LOCKET'D) 9. WELL NO. 10. FIELD AND FOOL, OR WILDCAT WILICAT WI	(Do not use this form for propose	als to drill or to deepen or plug back	k to a different reservoir.	
WELL OAS OTHER WILDOOT		TION FOR PERMIT—" for such prop	osals.)	_
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P. O. Box 1129, Rock Springs, Wyoming 82901 4. Location of well (Report location clearly and in accordance with any State requirements.* At surface 2097 FSL, 2067 FWL NE SW 16. PERMIT NO. API # 43-037-30130 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PRACTURE TREAT SHOOT OR ACIDIZE ABANDON* REPAIR WELL (Other) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		Company		Lockerby
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2097 FSL, 2067 FWL NE SW 14. PERMIT NO. API # 43-037-30130 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE REPAIR WELL (Other) 17. DESCRIBE PRIDEOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)* Wildcat 11. SEC, T. R. M., OB BLK. AND NE SW 16-34S-26E., SIB&M 12. COUNTY OR PARISH 18. STATE 19. COUNTY OR PARISH 18. STATE SAN JUAN Utah 16. WATER SHUT-OFF FRACTURE TREATMENT SHOOT OF ACIDIZE ABANDON* (NOTE: Report results of multiple completion on Well (Completion or Recompletion Report and Log form.) (Other) 17. DESCRIBE PRIDEOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any nent to this work.)*	P. 0. Box 1129, F	Rock Springs, Wyoming	82901	1
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2097 FSL, 2067 FWL NE SW 14. PERMIT NO. API # 43-037-30130 KB 6792.50 GR 6779 San Juan 15. Elevations (Show whether df, rt, gr, etc.) API # 43-037-30130 KB 6792.50 GR 6779 San Juan 16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF FRACTURE TREAT MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON* SHOOTING OR ACIDIZING ABANDONMENT* (Other) (Other) TESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*	At surface			Wildcat
2097 FSL, 2067 FWL NE SW 14. PERMIT NO. API # 43-037-30130 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE SHOOT OR ACIDIZE ABANDON* REPAIR WELL (Other) CHANGE PLANS (Other) CHANGE PLANS (Clearly State all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*				11. SEC., T., B., M., OR BLE. AND
NE SW 16-34S-26E., SLB&M 14. PERMIT NO. API # 43-037-30130 Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Notice of Intention to: TEST WATER SHUT-OFF FRACTURE TREAT SHOOT OR ACIDIZE ABANDON* REPAIR WELL (Other) Change Plans (Other) Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data Notice of Intention to: SUBSEQUENT REPORT OF: REPAIRING WELL ALTERING CASING ABANDON* SHOOTING OR ACIDIZING ABANDON* (Other) SUPPLEMENTATY ABANDON* (Other) SUPPLEMENTATY ABANDON* (Other) (Note: Report results of multiple completion on Well (Other) Tompletion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly State all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*	2097' FSL, 2067' FW	TL NE SW		BUBYRI OR ARBA
API # 43-037-30130 KB 6792.50° GR 6779° San Juan Utah Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PULL OR ALTER CASING MULTIPLE COMPLETE FRACTURE TREAT MULTIPLE COMPLETE FRACTURE TREAT ALTERING CASING SHOOT OR ACIDIZE ABANDON° X SHOOTING OR ACIDIZING ABANDONMENT° REPAIR WELL CHANGE PLANS (Other) Supplementary history X (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly State all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*				NE SW 16-34S-26E., SLB&M
Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PULL OR ALTER CASING MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON* CHANGE PLANS (Other) (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) 17. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		15. ELEVATIONS (Show whether DF, RT	, GR, etc.)	12. COUNTY OR PARISH 18. STATE
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PULL OR ALTER CASING MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON* CHANGE PLANS (Other) (Other) TOESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*	API # 43-03 7- 30130	KB 6792.50' GR	6779 '	San Juan Utah
NOTICE OF INTENTION TO: TEST WATER SHUT-OFF PULL OR ALTER CASING MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON* CHANGE PLANS (Other) (Other) TOESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*	16. Check And	propriate Box To Indicate Nat	ure of Notice Report or C	Other Data
TEST WATER SHUT-OFF PULL OR ALTER CASING MULTIPLE COMPLETE SHOOT OR ACIDIZE ABANDON* CHANGE PLANS (Other) (Other) TO ESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*				•
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SHOOT OR ACIDIZE REPAIR WELL (Other) CHANGE PLANS (Other) CHANGE PLANS (Other) Supplementary history (Note: Report results of multiple completion on Well (Completion or Recompletion Report and Log form.) 17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*		·		1 -
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proposed work. It well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *		Trans (Clauda de la Marada de l		
	proposed work. It well is direction	ally drilled, give subsurface location	etalis, and give pertinent dates, s and measured and true vertica	l depths for all markers and zones perti-
	TD 6050'.			
Rigged up work over unit on 5-9-74, drilled and pushed bridge plug, fished, set bridge		on 5 0.7) drilled on	d muchod baides mlan	r fished set bridge
plug at 5908', made PDST #5 & 6, set bridge plug at 5723', perforated from 5644' to 5660'	Aleged up work over unit	#E % 6 got bridge min	u pusheu priuge piu	g, iisned, set bridge
with 2 holes per foot, made PDST # 7, 8, & 9, set bridge plug at 5580', recovered 3913'	plug at 1900, made PDST	#5 of O, set bridge pi	ug at 5125, periora	ared 1.10m 2044, 10 2000,
with 2 notes per 100t, made PDS1 # 1, 0, & 9, set bridge ping at 5500, recovered 3913.	with 2 hores per 1000, ma	t = 7	set briage piug at j	7700', recovered 3913'
of $4\frac{1}{2}$ " casing set 2 cement plugs, recovered 933' of 8-5/8" casing, completed plugging			3. or o-5/o casing	, completed plugging
well, rig released 5-23-74.	метт, rig reteased 5-23-7	4.		
PDST #5: Perfs 5878-5886', mis-run, test tool plugged.				
PDST #6: Perfs 5878-5886', IO ½ hr, ISI ½ hrs, FO 1 hr, FSI 3 hrs, opened good decreased	PDST #5: Perfs 5878-5886		plugged.	
	PDST #5: Perfs 5878-5886 PDST #6: Perfs 5878-5886	', mis-run, test tool	plugged. s. FO l hr. FST 3 h	rs. opened good decreased
to weak, reopened fair, no gas, recovered 20' water, IHP 2640, IOFP's 0-0, ISIP 1046,	PDST #6: Perfs 5878-5886	', mis-run, test tool ', IO $\frac{1}{2}$ hr, ISI $1\frac{1}{2}$ hr	s, FO l hr, FSI 3 h	

PDST #7: Perfs 5644-5660', mis-run, tool plugged with rubber.

PDST #8: Perfs 5644-5660', mis-run, opened test tool and mud in annulus dropped after 2 mins.

PDST #9: Ismay perfs 5644-5660', IO ½ hr, ISI 2 hrs, FO 52 minutes, FSI 2 hrs, opened weak increasing to strong, reopened strong, gas in 5 minutes, 6 minutes 30 Mcf, 25 minutes 3 Mcf, decreased to very weak in 52 minutes, recovered 90' water, IHP 2123, IOFP's 27-27, ISIP 1551, FOFP's 27-27, FSIP 2004, FHP 2123. CIBP's at 5908', 5723' & 5580'. الله المحمد المحم

- Contined on reverse -

18. I hereby certify that the foregoing is true and correct SIGNED	THTLE _	Vice President, Gas Supply Operations	DATE Aug. 7, 1974
(This space for Federal or State office use)		1	
APPROVED BYCONDITIONS OF APPROVAL, IF ANY:	TITLE _		DATE

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated,

on Fed-

Consult local

Verbal approval was granted to plug and abandon the subject well by laying the following plugs:

3968-3868', 2740-2640', Plug No. 1: sacks Plug No. 2: 35 sacks 960- 860°, 460- 360°, 45 sacks Plug No.

45 sacks Plug No. 4: 10 sacks into top of 10" Plug No. 5: surface pipe. E GO GOND

eral and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include lreasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

State or Federal office for specific instructions.

1.27 H

Cement Bond (400-2644')

(4300-5997')

Well: Lockerby Well No. 1	Date: November 11, 1974
Area: Paradox Basin	Lease No: ML-27096
New Field Wildcat Development Well New Pool Wildcat Extension	☐ Shallower Pool Test ☐ Deeper Pool Test
Location: 2097 feet from South line, 2067	feet from West line
$NE \frac{1}{1+} SW \frac{1}{1+}$	
Section 16, Township 34 South	, Range26 East
County: San Juan	State: <u>Utah</u>
Operator: Mountain Fuel Supply Company	
Elevation: KB 6792.5' Gr 6779' Total Depth: Dril	ller 6050' Log 6029'
Drilling Commenced: November 8, 1973 Drilling	Completed: December 17, 1973
Rig Released: January 1, 1974 (drilling) Well Comp May 23, 1974 (work over) Sample Tops: (unadjusted)	pleted: May 23, 1974 Log Tops:
See Attached Sheet	
Sample Cuttings: 30-foot samples from 650-20 10-foot samples from 2000-6 Dry cuts in Rock Springs co	
Status: Dry and abandoned	
Producing Formation: None	
Perforations: 5644-5660'; 5758-5782'; 5878-5886'; 5974-5	990'; 6008-6022'; 2 jet shots/foo
Stimulation: 5758-5782'; 6000 gallons 28% HCL	
Production: None	•
Plug Back Depth: Surface	•
Plugs: #1 3968-3868' 35 sacks; #2 2740-2640' 35 sacks; #4 460-360' 45 sacks; #5 10 sacks in surface cas Hole Size: 9-7/8" from surface to 411.00'; ream to 13-3/2714.62'; 7-7/8" from 2714.62' to 6050.00' Casing/Tubing: 10-3/4" surface casing @ 411.00'; 8-5/8" (rec. 933'); 4-1/2" production casing @ 6 Logging - Mud: Core Lab - Ric Duncan, supervisor/consult	ing 4"; 9-7/8" from 411.00' to intermediate casing @ 2714.62' 050.00' (rec. 3913') ant
5" field print 650-6030'; two 2" & two 5" Mechanical: Dresser Atlas	final prints 650-6030' Schlumberger

Completion Report Prepared by: J. E. Bircher

Loffland Brothers

Contractor:

Remarks: This well was drilled to test the porosity and carbonate development of the Ismay and Desert Creek zones. This well was temporarily abandoned January 1, 1974, teentered May 9, 1974 and plugged and abandoned May 23, 1974.

DIL (2689-6029') SNL (4250-6029') BHC (2689-6019')

COMPLETION REPORT (cont.)

Well: Lockerby Well No. 1

Area: Paradox Basin

Cored Intervals (recovery): None

Tabulation of Drill Stem Tests:

No.	Interval	IHP	IFP (min.)	ISIP (min.)	FFP (min.)	FSIP (min.)	FHP	Samples Caught	Remarks
**DST 1 DST 2	5651-5674 5768-5831	2634 2682	32-32 (30) 115-84 (31)	1722 (90) 2053 (89)	28-34 (120) 128-78 (120)	2159 (180) 1890 (225)	2612 2650		Rec. 25' mud GTS in 10 min. @ 75 Mcf (stablized) rec. 340' mud
DST 3 PDST 1	5920-5960 5936-6029	2737 2752	5-7 (30*) 100-101 (90)	53 (90*) 1836 (120)	7-7 (120*) 62-181 (120*)	38 (150*) 175 (?)	2727 2703	Mud	NGTS, rec. 5' mud GTS in 10 min. w/2 oz.si through 3/8" choke (6.6 Mcf) rec. 216' GCM
PDST 2 PDST 3	5843-6029 5720-5860	2655 2634	131-258 (60*) 182-124 (62)	553 (60*) 1972 (88)	499-765 (120*) 241-105 (121)	669 (120*) 1847 (180)	2613 2560		GTS in 9 min. TSTM, rec. 558' GCM GTS in 4 min. w/85 psi through 3/8" choke (295 Mcf), rec. 210' GCM
PDST 4	5720-5860 5878-5886	2606	141-100 (210)	1791 (240)					GTS in 4 min. w/20 psi through 3/8" choke (97 Mcf) rec. 270' GCM Misrun, test tool plugged
PDST 5 PDST 6 PDST 7	5878-5886 5644-5660	2643	34-19 (29)	1068 (92)	24-50 (61)	597 (178)	2531		Rec. 3' water Misrun, tool plugged with rubber
PDST 8	5644-5660	1852					1852	•	Misrun, opened tool and mud in annuludropped after 2 mins.
PDST 9	5644-5660	1991	46-46 (30)	1586 (125)	35-44 (52)	2033 (155)	2008		GTS in 5 min. on FF @ 30 Mcf (max) rec. 100' water

^{*} Field Reported
** Pressures from bottom chart

SAMPLE TOPS LOG TOPS

Summerville	803'	Dakota	Surface
Curtis	1032'	Summerville	818'
Entrada	1112'	Entrada	1121'
Carmel	1266'	Carmel	1266'
Navajo	1302	Navajo -	1298
Kayenta	1582	Kayenta	1565'
Wingate	1756'	Wingate	1741'
Chinle	1964'	Chinle	1967'
Shinarump	2559'	Shinarump	25411
Moenkopi	2644	Moenkopi	26201
Cutler	26941	Cutler	27201
Honaker Trail	43481	Honaker Trail	4353'
Paradox	49071	Paradox	48691
Upper Ismay	5490'	Upper Ismay	54781
Lower Ismay	56771	Lower Ismay	56891
"B" Marker	58131	"B" Marker	58031
Desert Creek	5888 *	Desert Creek	5876'
Salt	60221	Salt	60201